Small-angle X-ray scattering study of the structure of molecules of native RNA. TSitologia 5 no.3:352-353 My-Je '63. (MIRA 17:5) 1. Laboratoriya struktury polimerov Instituta vysokomolekulyarnykh soyedineniy AN SSSR, Leningrad i kafedra fiziki polimerov Leningradskogo universiteta.

FEDOROV, B.A.; PTITSYN, O.B.

Determination of the transverse sizes of macromolecules by means of X rays scattered at small angles. Dokl. AN SSSR 153 no.4:882-885 D 163. (MIRA 17:1)

1. Leningradskiy gosudarstvennyy universitet im. A.A. Zhdanova 1 Institut vysokomolekulyarnykh soyedineniy AN SSSR. Predstavleno akademikom V.A. Karginym.

PTITSYN, O.B.; FEDUROV, B.A.

Determination of flexibility of ENA molecules with the aid of light disseminated at large angles. Blofizika 8 no.6:659-663 163. (MIRA 17:7)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR, Leningrad.

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412620003-3"

FEDCROV, B.A.,; SHCHEDROVITSKIY, S.S.

Effect of the number of readings of weight scales on the weighing results. Ism. tekh. no.2:32-37 Mr-Ap '55. (MIRA 8:9)

1. Sverdlovskiy filial Vsesoyusnogo nauchno-issledovatel' skogo instituta metrologii (for Fedorov). 2. MCIMIP (for Shchedrovitskiy)

(Scales (Veighing instruments))

FEDOROV, Boris Aleksandrovich; LEVITAN, I.M., red. izd-va; PAVLOVSKIY, A.A., tekhn. red.

[Finland economy and foreign trade]Finliandiia; ekonomika i vneshniaia torgovlia. Moskva, Vneshtorgizdat, 1962. 177 p. (MIRA 15:8)

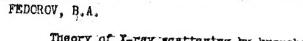
(Finland—Economic conditions)
(Finland—Commerce)

"The Planning of the Introduction of Remote Control in Power Systems and the Requirements Posed by the Remote Control Apparatus" from the book Remote Control of Power Systems, published by the AS USSR, 1954.

FEDOROV, B.A.

Theory of X-ray scattering at small angles by DNA molecules in a solution. Biofizika 10 no.1:7-10 '65. (MIRA 18:5)

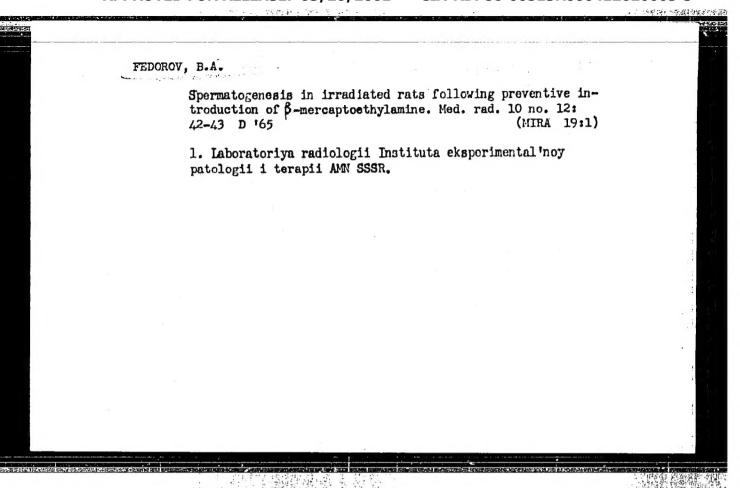
1. Fizicheskiy institut Leningradskogo gosudarstvennogo universiteta imeni Zhdanova.



Theory of X-ray scattering by branched macromolecules in solution with a single point of branching. Vest. IGU 20 no.10,20 33 165.

(MIRA 18:7)

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"On the Possibility of Using a Free Gyroscope in the Layout of Underground Pits. Thesis for degree of Cand Technical Sci Sub 26 Oct 50, Moscow Mining Inst imeni I. V. Stelin Summary 71, 4 Sep 52, Dissertations Presented for Degrees in Science and Engineering in Moscow in 1950. From Vechernyaya Moskva, Jan-Dec 1950.

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發展團點翻發

FADCAUY, D. D.

"A Possibility of Using a Free Cyroscope for Crientation of Subterrance Milling," Nauch. tr. Nock. Gor. In-ta, No 11, 1953, pp 71-17.

A reiterating theodolite is fixed to the gyroscope in such a way as to align the gyroscope bearings and rotational axis of the theodolite limb on one vertical. A special device allows orientation of the theodolite with respect to the gyroscope axis. (RZhAstr, No 8, 1955) SO: Sua. No. 713, 9 Nov 55.

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412620003-3"

1. 马斯里特里的特别,这种是

Gyroscopic method of orientation for underground mining.
Nauch. trudy M91 no.12:38-56 '54. (MLRA 10:2)

(Mine surveying) (Gyrocompass)

SHERSTNEY, Dmitriy Safronovich; FEDOROY, Beris Dmitriyevich;
RASHROVEKIT, Ta.Z., redakter; SLAVORISOY, A.Kh., redakter;
RADRINSKAYA, A.A., tekhnicheskiy redakter.

[Fundamentals of geodesy and mine surveying] Osnovy geodesii i marksheiderskege dela. Moskva, Ugletokhisdat, 1955. 203 p.

(Surveying) (Mine surveying) (NLRA 9:1)

PHASE I BOOK EXPLOITATION 762

- Pavlov, Fedor Fedorovich, Doctor of Technical Sciences, Professor; Mashkevich, Vladimir Pavlovich, Candidate of Technical Sciences, Docent; Fedorov, Boris Dmitriyevich, Candidate of Technical Sciences, Docent
 - Geodeziya (Geodesy) Moscow, Ugletekhizdat, 1955. 356 p. 10,000 copies printed.
 - Responsible Ed.: Gusev, N.A.; Ed. of Publishing House: Slovorosov, A.Kh.; Tech. Ed.: Prozorovskaya, V.L.
 - PURPOSE: This is a textbook designed for mining and mining engineering students at the university level and for independent study by mine workers.
 - COVERAGE: This manual is published for mining and metallurgical vuzes under the auspices of the USSR Ministry of Higher Education and was written by members of the Moscow Mining Institute under the direction of Professor F.F. Pavlov. Chapters I, II,

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Geodesy

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IV, VI, VII, VIII, IX, and X were written by Professor F.F. Pavlov and docents V.P. Mashkevich and B.D. Fedorov; chapters III, V, XIV, XV and Sec. 19 by B.D. Fedorov, and chapters XI, XII and XIII by Professor Pavlov. The book presents the theory and practice of geodesy as applied to modern mining and mining engineering operations. The text is accompanied by numerous diagrams, maps, photographs and tables. Instruments and methods of making measurements are described in considerable detail. By way of introduction, Chapter I provides a brief account of the historical development of geodesy and particularly its development in Russia. It concludes by stating that in 1940 the Central Scientific Research Institute of Geology and Cartography under Professor F.N. Krasovskiy, redetermined the dimensions of the Earth's ellipsoid and that all geodestic and cartographic work in the USSR as of April 7, 1946 has been based on the new dimensions. The new ellipsoid is known as the Krasovsky ellipsoid. By 1950 class I triangulations had reached a total of 75,000 km. and class I and II leveling, 150,000 km. A considerable part

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Geodesy

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of the Soviet Union is now covered by a complete network of the Soviet Union is now covered by a complete network of triangulations. Mentioned in the introduction as having made outstanding contributions in the fields of geodesy and cartography are Professor N.G. Kell', Professor A.S. Chebotarev, A.A. Mikhaylov, N.A. Urmayev, V.V. Danilov, and V.V. Popov, corresponding members of the USSR Academy of Sciences; F.N. Krasevskiy, A.A. Izotov, A.A. Mikhaylov and M.S. Molodenskiy who had worked out new methods of determining the shape of the Earth; and Professor Doctor F.V. Drobyshev, Professor N.M. Aleksapol'skiy, M.D. Konshin, M.M. Rusinov, V.A. Belitsyn, G.Yu. Stodolkevich, and Docent N.A. Gusev, eminent designers of geodetic instruments who have been awarded Stalin prizes for their work.

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AL THERES

ABRAMOV, S.K., kand.tekhn.nauk; AVERSHIN, S.G., prof., doktor tekhn.nauk; AMMOSOV, I.I., doktor gool.-min.nauk; AlDRIYEVSKIY, V.D., insh.; AMTROPOV, A.N., insh.; AFAMAS'YEV, B.L., insh.; BERGMAN, Ya.V., insh.; BLOKHA, Ye. Ye., insh.; BOGACHEVA, Ye. H., insh.; BUKRINSKIY, V.A., kand.tekhn.nauk; VASIL'YEV, P.V., doktor geol.-min.nauk; VINOGRADOV, B.G., insh.; GOLUBEV, S.A., insh.; GORDIYENKO, P.D., insh.; GUSEV, N.A., kand.tekhn.nauk; DOROKHIN, I.V., kand.geol.-min.nauk; KAIMYKOV, G.S., insh .; KASATOCHKIN, V.I., doktor khim .nauk; KOROLEV, I.V., insh .; KOSTLIVTSEV, A.A., inzh.; KHATKOVSKIY, L.F., inzh.; KRASHENINNIKOV, G.F., prof. doktor geol.-min.mauk; KRIKUNOV, L.A., insh.; LEVIT, D.Ye., insh.; LISITSA, I.G., kand.tekhn.nauk; LUSHNIKOV, V.A., inzh.; MATVEYEV, A.K., dots., kand.geol.-min.nauk; MEPURISHVILI, G.Ye., isnh.; MIRONOV, K.V., inzh.: MOLCHANOV, I.I., iznh.: NAUMOVA, S.N., starshiy nauchnyy sotrudnik; MEKIPHLOV, V.Ye., inzh., PAVIOV, F.F., doktor tekhn.nauk; PANYUKOV, P.N., doktor geol.-min.nauk; POPOV, V.S., inzh.; PYATLIN, M.P., kand.tekhn. nauk; RASHKOVSKIY, Ya.R., inzh.; ROMANOV, V.A., prof., doktor tekhn. nauk; RYZHOV, P.A., prof., doktor tekhn.nauk; SELYATITSKIY, G.A., insh.; SPERANSKIY, M.A., inzh.; TERENT'YEV, Ye.V., inzh.; TITOV, N.G., doktor khim.nauk; GOKAREV, I.F., inzh.; TROYANSKIY, S.V., prof.; doktor geol .min.nauk; FEDOROV, B.D., dots., kand.tekhn.nauk; FEDOROV, V.S., insh. [deceased]; KHCMENTOVSKIY, A.S., prof., doktor geol.-min.nauk; TROYANOV-SKIY, S.V., otvotstvennyy red.; TERPIGOREV, A.M., red.; KRIKUNOV, L.A., red.; KUZNETSOV, I.A., red.; MIRONOV, K.V., red.; AVERSHIN, S.G., red.; BURTSEY, M.P., red.; VASIL'YLV, P.V., red.; MOLCHANOV, I.I., red.; RYZHOV, P.A., red.; BALANDIN, V.V., inzh., red.; BLOKH, I.M., kand. tekhn.nauk, red.; BUKRINSKIY, V.A., kand.tekhn.nauk, red.; VOLKOV, K.Yu., insh., red.; VOROB'YEV, A.A., insh., red.; ZVONAREV, K.A., prof. doktor tekhn nauk, red. (Continued on part card)

ARRAMOV, S.K .-- (continued) Card 2.

ZDANOVICH, V.G., prof., doktor tekhn.nauk, red.; IVANOV, G.A., doktor geol.-min.nauk, red.; KARAVAYEV, N.M., red.; KOROTKOV, G.V., kand.geol.-min.nauk, red.; KOROTKOV, M.V., kand.tekhn.nauk, red.; HAKKAVEYEV, A.A., doktor geol.-min.nauk, red.; OMEL'CHENKO, A.N., kand.tekhn.nauk, red.; SENDERZON, E.M., kand.geol.-min.nauk, red.; USHAKOV, I.N., dots., kand.tekhn.nauk, red.; YABIOKOV, V.S., kand.geol.-min.nauk, red.; KOROLEVA, T.I., red.izd-va; KACHALKINA, Z.I., red.izd-va; PROZOROVSKAYA, F.L., tekhn.red.; NADEINSKAYA, A.A., tekhn.red.

[Mining; an encyclopedia handbook] Gornoe delo; entsiklopedicheskii apravochnik. Glav. red. A.M.Terpigorev. Moskva, Gos.nauchno-tekhn. izd-vo lit-ry po ugolinoi prowyshl. Vol.2. [Geology of coal deposits and surveying] Geologiia ugolinykh mestorozhdenii i marksheiderskoe delo. Redkolegiia toma S.V.Troianskiy. 1957. 646 p. (MIRA 11:5)

1. Chlen-korrespondent AN SSSR (for Karavayev) (Coal geology-Dictionaries)

ENCREVING DOLLERASE I BOOK EXPLOITATION

Fedorov, Boris Dmitriyevich

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Geodeziya (Geodesy) Moscow, Ugletekhizdat, 1957. 379 p. 12,000 copies printed.

RESP. ED.: Serebryanniy, A. G.; Ed. of Publishing House: Slavorosov, A. Kh.; Tech. Ed.: Nadeinskaya, A. A.

PURPOSE: This is a textbook for the course "Geodesy" taken by students specializing in surveying at mining institutes.

COVERAGE: The author puts special emphasis on linking geodesy with other subjects in mining engineering, such as underground geometry, etc. The book supplies fundamental information on the topography of the earth's surface and on map making. Field and office work in geodetic surveying is described in considerable detail. Among other things, the book describes a number of tools and instruments used by surveyors. The majority of these descriptions are accompanied by photographs and/or diagrams. Mentioned are: measuring tapes, clinometers, cross staff, optical squares, azimuth and prismatic compass, transits and their optical parts (among them the following transits: NG-1, TN-2, TT-50 and OT-10), an office computer, planimeter, dumpy levels (among them the types NV-1 and NG); Y-levels (types NP-1 and NT), "Geofizika" precision level, Stodolkevich level (type NS), automatic level mounted on a bicycle (designed by M. P. Leontovskiy and K. P. Nechiporenko), Artanov automatic level, the Raabek automatic level;

Geodesy

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levelling rods; cross-hair and other range-finders, two automatic tacheometers (the Stodolkevich type and type NF; plane tables and alidades, phototheodolite, serial photographic camera, projection lamp, and ameroid barometer. The following Soviet instrument designers are mentioned: Professor F. V. Drobyshev, Professor M. D. Konshin, Professor M. M. Rusinov, Professor I. M. Aleksapol'skiy, Professor V. A. Belitsyn, Professor M. P. Leontovskiy, Professor K. P. Nechiporenko, Professor A. P. Bolotov, Docent G. Yu. Stodolkevich and Doctor N. A. Gusev, Engineer M. A. Artanov and Engineer Ye. V. Raabek. The following Soviet scientists are mentioned in the field of earth science: Professor F. N. Krasovskiy, Professor A. A. Izotov, Professor A. A. Mikhaylov, and Professor M. S. Molodenskiy. The following Soviet scientists are mentioned in the field of geodesy and cartography: Professor N. G. Kell', Professor A. S. Chebotsrev, Professor N. A. Urmayev, Professor V. V. Danilov, and Professor V. V. Popov. There are 281 figures, 32 Soviet references, and 30 tables. Some of the tables give specifications of instruments.

Card 2/14

KOICHIN, Viktor Pavlovich; FEDOROV. R.D. dots., retsenzent; SEREBRYANYY, A.G., inzh., otvetstvennyy red.; LOHILIMA, L.W., tekhn, red.

[Collection of problems and exercises in surveying] Sbornik zadach i uprazhnenii po geodezii. [Moskva] Ugletekhizdat, 1958. 214 p. (Surveying) (MIRA 11:9)

GUSEV, Nikolay Andreyevich; FEDOROV, B.D., otv.red.; SLAVOROSOV, A.Kh., red.izd-va; IL'INSKAYA, G.M., tekhn.red.; LCHILINA, L.W., tekhn. red.

> [Mine surveying instruments] Marksheidersko-geodezicheskie pribory i intrumentovedenie. Moskva, Ugletekhizdat, 1958. (MIRA 12:4) 522 p.

(Mine surveying -- Equipment and supplies)

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PAVLOV, Fedor Fedorovich, prof.; MASHKEVICH, Vladimir Pavlovich, dots.; FEDOROV, Boris Dmitriyevich, dots.; RODIONOV, L.Ye., otv. red.; SLAVOROSOV, A.Kh., red. izd-va; BOLDYREVA, Z.A., tekhn.red.; PROZOROVSKAYA, V.L., tekhn. red.

[Geodesy] Geodeziia. Moskva, Gos. nauchno-tekhn. izd-vo litry po gornomu delu, 1961. 274 p. (MIRA 14:5)

1. Moskovskiy gornyy institut (for Pavlov, Mashkevich, Fedorov) (Surveying)

FEDOROV, Boris Dmitriyevich; SLAVOROSOV, A.Kh., red.izd-va; HOLDYREVA,
Z.A., tekhn. red.

[Geodesy] Geodeziia. Moskva, Gos. nauchno-tekhn. izd-vo litry po gornomu delu, 1961. 335 p. (MIRA 15:2)

(Surveying)

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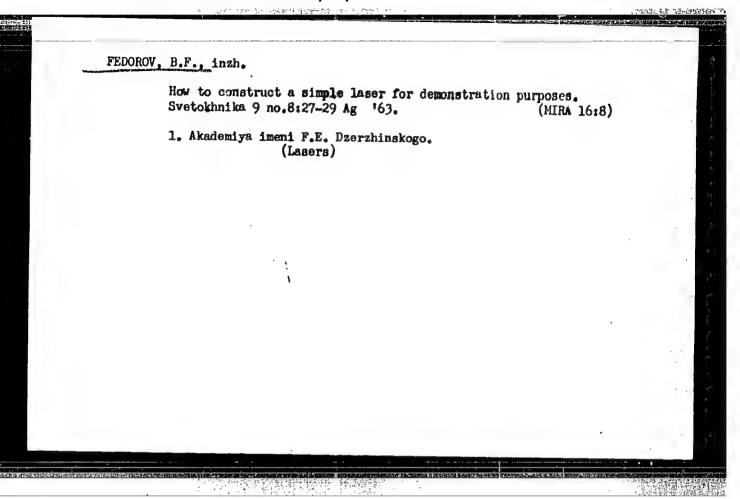
FEDOROV, Boris Dmitriyevich; SLAVOROSOV, Aleksey Kharitonovich;

KOROLEVA, T.I., red. lzd-va; BOLDYREVA, Z.A., tekhn.
red.; LAWILINA, L.N., tekhn. red.

[Principles of geodesy and mining surveying] Osnovy geodezii
i marksheiderskogo dela. Moskva, Gosgortekhizdat, 1962. 327 p.

(Geodesy) (Mine surveying)

(Geodesy) (Mine surveying)



IZNAR, Andrey Nikolayevich; FEDOROV, Boris Fedorovich; VCIKOVA, I.M., red.

[Optical quantum devices (lasers) and their use in military technology; according to materials of the foreign press] Opticheskie kvantovye pribory (lazery) i ikh primenenie v voennoi tek nike; po materialam zarubezhnoi pechati. Moskva, "Sovetskoe radio," 1964. 173 p. (MIRA 17:7)

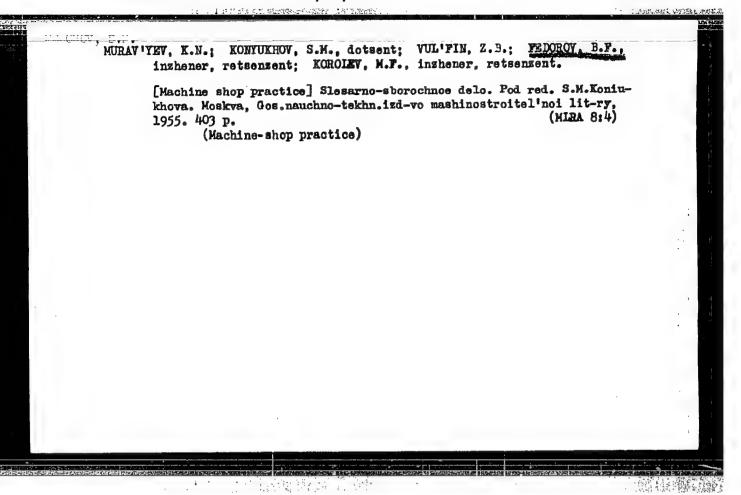
PEDOROV, B.F.; MOSKALEV, S.M.; SHAKHRAY, M.L. professor, redaktor.

[Mechanization of fitting and assembly work] Mekhanizatsiia
slesarne-sborochnykh rabet. Moskva, Gos. nauchno-tekhn. izd-vo
mashinostroit. lit-ry, 1950. 231 p. (MIRA 7:5)

(Machinery--Construction)

FEDOROV, B.F.; MURAV'YEV, K.H., retsensent, inshener, KONUYKHOV, S.M. redaktor, inshener, STUDENTSIN, B.P., redaktor; DUGIHA, H.A., tekhnicheskiy redaktor.

[An efficient method for force-fitting and disassembling pressure-fitted machine parts] Ratsional'nyi sposob raspressovki i sapressovki detalei. Moskva, Gos.nauchno-tekhn.isd-vo mashinostroit.lit-ry, 1955. 65 p. (NLRA 8:11) (Machine-shop practice)



MURAV'TEV, K.N.; KONYUKHOV, S.M., dots., red.; VUL'FIN, Z.B.; FEDOROV, B.F., inzh., retsenzent; KOROLEV, M.F., inzh., retsenzent; LUGIE, W.A., tekhn. red.

[Work of mechanic and fitter] Slesarno-sborochnoe delo. Pod red.
S.M. Koniukhova. Moskva, Gos. nauchno-tekhn, izd-vo mashinostroit.
lit-ry, 1956. 397 p.

(Machine-shop practice)

28(1);25(1)

PHASE I BOOK EXPLOTTATION

SOV/2971

Fedorov, Boris Fedorovich

- Mekhanizatsiya slesarno-sborochnykh i montazhnykh rabot (Mechanization of Bench and Assembly Work) Moscow, Mashgiz, 1957. 306 p. Errata slip inserted. 18,000 copies printed.
- Tech. Ed.: G.A. Sarafannikova; Reviewer: M.P. Novikov, Candidate of Technical Sciences; Ed.: M.A. Bezukladnikov, Engineer; Ed. (Ural-Siberian Division, Mashgiz): M.I. Sustavov, Engineer.
- PURPOSE: This book is intended for mechanics and machinists studying to improve their skill.
- COVERAGE: The book deals with the fundamentals of mechanization in machine-assembly work. The information given is based on practices of Soviet and non-Soviet plants, work done at scientific research institutes, and progress made by industrial innovators. Basic operations involved in bench and assembly work are treated from the point of view of proposed mechanization. Examples of the use

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Mechanization of Bench and Assembly Work SOV/2971	
of various fixtures, devices, and mechanisms are given. Mo mechanized and electrified tools for assembly work are desc and illustrated. No personalities are mentioned. There ar references.	ribed
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PHASE I BOOK EXPLOITATION

sov/1668

25(5)

Fedorov, Boris Fedorovich

Povysheniye proizvoditel nosti truda pri sborke mashin (Increasing Labor Productivity in Assembling Machinery) Moscow, Mashgiz, 1958. 77 p. (Series: Biblioteka slesarya-sborshchika, vyp. 1) 10,000 copies printed.

Editorial Board of Series: S.N. Gorshkov, Engineer, A.A. Lobanov, Engineer, M.P. Novikov, Candidate of Technical Sciences, V.T. Poluyanov, Engineer, M.I. Sustavov, Engineer, B.F. Fedorov, Candidate of Technical Sciences; Ed. of Publishing House: M.I. Sustavov; Tech. Ed.: N.A. Dugina.

PURPOSE: The pamphlet is intended for assembly mechanics.

COVERAGE: This pamphlet is the first of a series on the latest engineering developments in assembling machines. It describes various types of production and assembling methods and emphasizes the basic means of increasing labor productivity. Among the latter

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are improved assembly techniques, overall mechanization a automatization of bench-assembly operations, and improved zation of labor tasks during the contractions.	SOV/1668 and organi-
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S/708/59/000/002/008/008 D221/D303

AUTHOR: Fedorov, B.F., Candidate of Technical Sciences

TITLE: The new technological process of expanding and

pressing-in of connections

SOURCE: Izhevsk. Mekhanicheskiy institut. Voprosy tochnosti metallorezhushchikh stankov i mekhanicheskoy obra-

botki, no. 2, 1959, 100 - 112

TEXT: The process of stripping parts fitted under pressure was investigated. It concerned the formation of an oil film between the mated surfaces. The oil pressed by hand pumps provides a fluid friction between the conjugated surfaces and, therefore, reduces the effort required for stripping. This pressure of oil is determined by $p = p_1 + p_2 + p_3$, where p_1 is the oil pressure necessary to counter the pressure in the contact zone; p_2 the oil pressure required to the sleeve expansion, p_3 is the pressure corresponding to the additional expansion of sleeve and compression of shaft for encard p_3

The new technological process ...

S/708/59/000/002/008/008 D221/D303

suring a formation of an oil film between them. Equations are quoted for each component which take into account the deformations, surface roughness, moduli of the materials, dimensions and other factors. The use of high pressure caused some doubts as to the possibility of exceeding the limits of elastic deformations, but the calculations and experiments demonstrated that there is no such risk. A detailed description is given of the hand pump. The tests demonstrated the feasibility of stripping by using any mineral oil. The disposition of the oil groove affects the effort of stripping. The duration of the press fit does not affect the oil pressure. The diagrams of stripping with and without oil pressure indicate a marked difference. The possibility of press fit with the use of oil pressure was established. Nomograms were plotted on the basis of the equation of oil pressure which is required for calculating the quantities in question. These curves are applicable for connections of components made in normalized steel, and moduli of elasticity of the sleeve up to 2100000 kg/cm2, or 2000000 kg/cm2 for the shaft. A numerical example of application of this chart is given. This new method reduces the service cycle for equipment. Repeated pressing

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The new technological process ...

of the fitments is possible, and heat expansion can be employed for reliable connection. There are 8 figures and 4 references: 2 Soviet bloc and 2 non-Soviet-bloc. The references to the English-language publications read as follows: A. Stewart and Murray, 'Power', v. 94 no. 4, 1950; Erland Bratt, The Machinist, L., v. 92, no. 47, 1949.

Card 3/3

 PHASE I BOOK EXPLOITATION

80V/3806

Fedorov, Boris Fedorovich

- Mekhanizatsiya i avtomatizatsiya sborochnykh rabot (Mechanization and Automation of Assembling) Moscow, Mashgiz, 1959. 105 p. (Series: Biblioteka slesaryasborshchika, vyp. 8) 12,000 copies printed.
- Ed. of Publishing House: M.I. Sustavov; Tech. Ed.: N.A. Dugina; Editorial Board of Series: S.M. Konyukhov, Engineer; M.P. Novikov, Candidate of Technical Sciences; V.T. Poluyanov, Engineer; A.N. Ryabov, Engineer; M.I. Sustavov, Engineer (Ed. of Book); and B.F. Fedorov, Candidate of Technical Sciences.

PURPOSE: The book is intended for assemblers.

COVERAGE: The author of this book, the 8th issue of the "Benchwork Assembler's Library," discusses the basic trends in mechanization and automation of assembly operations. He describes briefly modern means of full mechanization and mentions the economic advantages of introducing partial and total mechanization and automation into the assembly process. Many examples of achievements in the field

Card 1/3

echanization and Automation of Assembling	807/ 3806
of mechanization and automation are cited. Directly and the transition process from partial to complete No personalities are mentioned. There are 11 respectively.	lete mechanization are indicated.
CABLE OF CONTENTS;	
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Stages in development of mechanization Preparation of conditions for mechanization and	5
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h. II. Small-Scale Mechanization of Assembly	10
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Use of mechanized and special tools	11 14
Improvement of assembly process	22
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FERORCY, Boris Fedorovich; P'YANKOV, Fedor Porfir'yevich; DUGINA, N.A., tekhr. red.

[Establishing norms for fitting and assembling operations] Normirovanie slesarno-sborochrykh rabot. Moskva, Mashgiz, 1961. 49 p. (Biblioteka slesaria - sborshchika, po.11) (MIRA 15:1)

(Factory management)

MODZELEVSKIY, Aleksandr Aleksandrovich; NOVIKOV, M.P., kand. tekhn. nauk, red.; POLUYANOV, V.T., inzh., red.; RYABOV, A.N., inzh., red.; SUSTAVOV, M.I., inzh., red.; FEDOROV, B.F., kand. tekhn. nauk, red.; DELYUKIN, L.N., red. izd-va; DUGINA, N.A., tekhn. red.

[Technological processes in assembling movable joints] Tekhnologiia

sbornki podvizhnykh soedinenii. Moskva, Gos. nauchmo-tekhm. izd-vo mashinostroit. lit-ry, 1961. 71 p. (Biblioteka slesaria-sborshchika, no.?) (MIRA 14:11) (Couplings) (Machine-shop practice)

KIKTENKO, V.S.; SAFRONOV, Yu.P.; KUDRYAVTSEV, S.I.; EL'MAN, R.I.; FEDOROVICH, A.A.

Arrangement for automatic count of the particles of a bacterial aerosol. Lab. delp.7 no.10:57-60 0 '61. (MIRA 14:10) (AEROSOLS)

一点。在译的行政指

KIKTENKO, V.S., doktor med.nauk, prof.; SAFRONOV, Yu.P., kand.tekhn.nauk; KUDRYAVTSEV, S.I.; EL'MAN, R.I.; FEDOROV, B.F.; PUSHCHIN, N.I.; FEDOROVICH, A.A.

Photoelectronic count of the number of aerosol particles of organic and inorganic origin. Gig. 1 san. 26 no.2:47-53 F 161.

(MIRA 14:10)

[Increasing labor productivity in machinery assembly shops]
Povyshenie proizvoditel'mosti truda na sborke mashin. Izd.2.
Moskva, Mashgis, 1962. 57 p. (Biblioteka slesaria-sborshchika, no.1)

(Machine-Shop practice)

(Machine-Shop practice)

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412620003-3

FEDOROV, Boris Fedorovich; P'YANKOV, Fedor Porfir'yevich; DUGINA, N.A., tekhn. red.

[Devices, mechanisms, and systems for hoisting and conveying operations in the assembling of machinery] Prisposobleniia, mekhanizmy i ustroistva dlia pod memno-transportnykh operatsii na sborke. Moskva, Mashgiz, 1962. 77 p. (Biblioteka slesaria-sborshchika, no.8)

(MIRA 15:6)

(Hoisting machinery)

FEDOROV, Boris Fedorovich; DELYUKIN, L.N., red. izd-va; DUGINA, N.A.,

tekhn. red.

[Precision of assembly and quality control in fitting and assembling operations] Technost' sborki i kontrol' kachestva slesarno-sborochnykh rabot. Moskva, Mashgiz, 1962. 102 p.

(Biblioteka slesaria-sborshchika, no.10) (MIRA 15:6)

(Machine-shop practice)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412620003-3"

FEDOROV, Boris Fedorovich; SLOBODYANNIKOV, S.S., kand.tekhn.nauk,
retsemzent; TOLSTOV, M.A., inzh., retsenzent; BOGOSLAVETS,
N.P., tekhn.red.

[Mechanization and automation of fitting and assembling
operations] Mekhanizatsiia i avtomatizatsiia slesarnosborochnykh rabot. Moskva, Mashgiz, 1962. 310 p.

(Assembly-line methods)
(Automation)

(Automation)

STORUBLENKOV, Vladislav Pavlovich; FEDOROV, B.F., red.; SYCHEVA, V.A., tekhn. red.

[The lights of the beacons are burning] Goriat ogni maiakov.
Murmansk, Murmanskoe knizhnos izd-vo, 1962. 39 p.

(MIRA 16:6)

(Murmansk region-Fisheries-Labor productivity)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412620003-3"

SAMOYLOV, Sergey Ivanovich, prof.; GORELOV, Valentin Mikhaylovich, inzh.;
BRASLAVSKIY, Veniamin Markovich, kand. tekhn. mauk; KONDRATOV,
Yuriy Nikolayevich, inzh.; KALININ, Ignat Andreyevich, inzh.;
KUROCHKIN, Vasiliy Mikhaylovich, inzh.; POPOV, Vladimir
Artem'yevich, inzh.; KOZLOV, Kirill Georgiyevich, inzh.; FEDOROV,
Boris Fedorovich, kand. tekhn.nauk; STEPANOV, Valentin
Vladimirovich, kand. tekhn. nauk; DUGINA, N.A., tekhn. red.

[Technological processes in the manufacture of heavy machinery]
Tekhnologiia tiazhelogo mashinostroeniia. Pod red. S.I.Samoilova
Moskva, Mashgis, 1962. 589 p. (MIRA 16:4)
(Machinery industry)

FEDOROV, B.I., arkhitektor; LESOV, N.M., inshener-konstruktor; OSTROUMOV, ... A.M., redaktor

[Poultry house for 1,000 ducks (frame walls); brick columns with fillings of logs and adobe. Model no.15-28] Utiatnik na 1000 golov (steny karkasnye); kirpichnye stolby s sapolneniem is breven ili samana. Proekt No. 15-28. Noskva, 1956. 15 p. 7 fold. 1. (NIRA 9:12)

1. Bussia (1923- U.S.S.R.) Ministerstvo gorodskogo i sel'skogo stroitel'stva.
(Poultry houses and equipment)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412620003-3"

FEDOROV. B.I., arkhitektor; ARKHANGEL'SKIY, P.Ye., inzhener-konstruktor; GIAGOLEV, L.S., inzhener-teplotekhnik; KUDRYAVTSEVA, Ye.V., inzhener-elektrik; OSTROUMOV, A.N., redaktor

[Poultry house for 5,000 chicks; model no.15-26] Taypliatnik na 5000 golov. Proekt No.15-26. Moskva, 1956. 31 p. (HLRA 9:12)

1. Russia (1923- U.S.S.R.) Ministerstvo gorodskogo i sel'skogo stroitel'stva.

(Poultry houses and equipment)

S/170/61/004/002/011/018 B019/B060

AUTHORS:

Fedorov, B. I., Shul'man, Z. P.

TITLE:

Use of Permeable Porous Ceramics for the Experimental Study

of Mass Exchange Effects

PERIODICAL:

Inzhenerno-fizicheskiy zhurnal, 1961, Vol. 4, No. 2,

pp. 99-102

TEXT: A description is first given of the preparation of porous ceramics made of 75% chamotte, 12.5% kaolin, 12.5% clay, and 0.5% water glass, intended to serve for a study of mass exchange phenomena. The components were pulverized, treated with water (30 per cent by weight), transferred to suitable molds, dried, and burned. The pore size was determined by a method devised by Ritter and Drace (Ref. 5), in which mercury is pressed through the ceramics. A formula is given for the diameter distribution of radii, and formulas by B. V. Deryagin are also given for the calculation of the specific surface of the ceramics and the permeability to air. Experimental results obtained show that permeability, specific surface,

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Use of Permeable Porous Ceramics for the Experimental Study of Mass Exchange Effects

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and maximum pore radius can be reduced by better grinding of the components, and by burning at lower temperatures (which, however, entails an impairment of mechanical properties). There are 3 figures and 6 references: 5 Soviet and 1 US.

ASSOCIATION: Institut energetiki AN BSSR, g. Minsk (Institute of Power Engineering of the AS BSSR, Minsk)

SUBMITTED:

October 26, 1960

Card 2/2

ACCESSION NR: AP4011533

8/0170/64/000/001/0021/0027

AUTHOR: Fedorov, B. I.

TITE: Experimental study of water transpiration cooling in a non-isothermic turbulent boundary layer

SOURCE: Inzhenerno-fizicheskiy zhurnal, no. 1, 1964, 21-27

TOPIC TAGS: transpiration cooling, porous plate, heat transfer, mass transfer, tur-

ABSTRACT: Results are given of an experimental investigation of transpiration cooling by water of a porous ceramic plate under conditions of a turbulent boundary layer in a gradient air flow. The test equipment is shown in a sketch and is described in detail. The ambient temperature ranged from 50 to 130 C and the local Reynolds numbers from (1.5 to 3.5) x 105. Heat and mass transfer coefficients were determined by the heat substance balance both at the wall and in the boundary layer, Dimensionless formulas are derived for the combined rate of heat and mass transfer. The effect of the longitudinal pressure gradient and moderate turbulence on transpiration cooling is estimated. Orig. art. has 4 figs.

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ACCESSION NR: AT4041819

\$/2563/64/000/230/0139/0142

AUTHOR: Ayerov, V. Ye.; Fedorov, B. I.

TITLE: Measurements of turbulent non-isothermal flow

SOURCE: Leningrad. Politekhnicheskiy Institut. Trudyi, no. 230, 1964. Tekhnicheskaya gidromekhanika (Technical hydromechanics), 139-142

TOPIC TAGS: hot-wire anemometer, heat exchange, mass exchange, turbulence, turbulent flow, anemometer, non-isothermal flow

ABSTRACT: Some of the relationships in the combined processes of heat and mass exchange in a general hydrodynamic field are investigated. It was previously established that when these processes occur separately, turbulence in a flow increases the intensity of heat and mass exchange. In the present study, a hot-wire anemometer with a feedback amplifier of the type ATA-2, built by G. V. Smirnov, was used in measurements of non-isothermal flow. A short discussion is given on the precautions and corrections necessary in the use of this type of anemometer. One of the basic factors in the investigation of the influence of mass exchange on heat exchange is the influence of flow temperature on the degree of turbulence. This was investigated in an aerodynamic set-up of a closed type at zero, positive and negative pressure gradients. The results are shown in Fig. 1 of the Enclosure

ACCESSION NR: AT4041819

and indicate clearly that the degree of flow turbulence decreases with increasing temperature. This is explained by an increase in medium viscosity with increasing temperature, which leads to a decrease in amplitude of the turbulent pulsation of the flow. In the absence of a gradient, an increase in temperature from 20 to 130C leads to a decrease in turbulence by a factor of two. As shown in Fig. 2 of the Enclosure, an increase in the Reynolds number causes a considerable reduction in the degree of turbulence in a cold or heated flow. This is, however, an unexpected result which should be investigated further. It is concluded that the hot-wire anemometer ATA-2 can be very useful in the investigation of non-isothermal flow. Orig. art. has: 3 figures and 2 formulas.

ASSOCIATION: Leningradskiy politekhnicheskiy institut im. M. I. Kalinina (Leningrad Polytechnical Institute)

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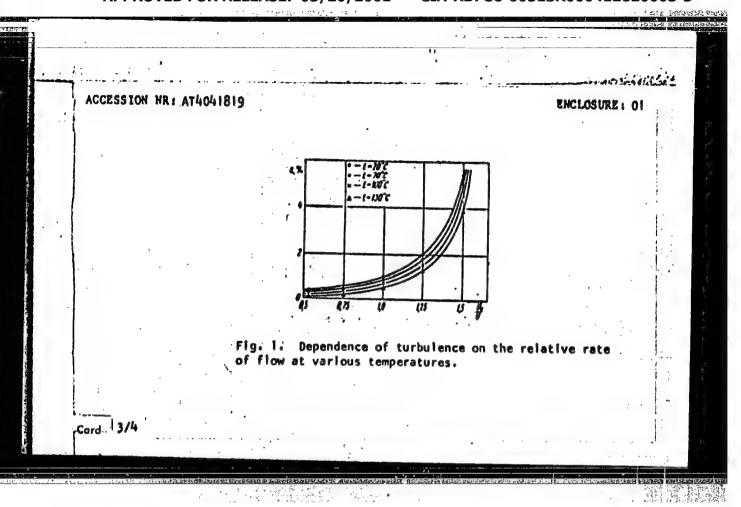
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OTHER: 002

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3921-06 EWI (1)/EMP(e)/EMP(m)/EMI(m)/EIC/EPF(n)-2/EMG(m)/EMP(t)/EMP(k)/EMP(a) ACC NR: AT5027195 FCS (k)/ENP(b)/EWA(1) UR/0000/65/000/000/0070/0085 JD/ITH/GS 14,55 AUTHOR; Smol'skiy, B. M.; Shul'man, Z. P.; Fedorov, 44,59 8 St ORG? Institute of Heat and Mass Transfer AN BSSR, Minsk (Institut 034/ teplo- 1 massoobmena AN ESSR) TITLE: Heat and mass transfer in a boundary layer on a porous wall SOURCE: AN BSSR. Institut teplo- 1 massoobmena. Teplo- i massoobmen tel s okruzhayushchey gazovoy sredoy (Heat and mass exchange of bodies with the surrounding gaseous medium). Minsk, Nauka i Tekhnika, 1965, 70-85 455 TOPIC TAGS: boundary layer theory, heat transfer, mass transfer, 21, 44, 5 5 turbulent boundary layer, vaporization, surface property ABSTRACT: The article considers the thermodynamic and hydromechanical characteristics of the process of evaporation of a drop-form liquid from a porous wall. The experimental sample (illustrated in a figure) was a glass with a diameter of 0.054 meters and a length of 0.25 meters, equipped with an ice calorimeter insulated from the rest of the internal space. The experiments were carried out in an aerodynamic tube with a sealed working section. The velocity of the Card 1/3

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air flow could be varied smoothly from 2 to 18 meters/sec, and the temperature of the flow was measured from 15 to 150°C. The experimental conditions were the following: flow temperature-70, 100, 130°C; moisture content of the medium and \$\Phi\$-4.1 and 0.5%, respectively; flow velocity-6, 10, 12, and 15 meters/sec. The range of Reynolds numbers, consequently, was (2-7) x 10°. The generalized relationship found for the whole range of experimental parameters for the front end of the surface of the cylinder had the form:

 $Nu_x = 1.48 (e^{-2.4k_x} + 0.2e^{-3.5k_x}) \sqrt{Re_x} K^{0.38}$ (2)

The coefficients and the power exponents in the above formula were found by the method of least squares. The article proceeds to consider the question of developed turbulent flow in the boundary layer. The experiments on heat and mass transfer were carried out on the evaporation of water in a turbulent boundary layer from a flat ceramic fireclay plate, in a flow of heated air with a gradient. The velocity of the air flow in the working column of the aerodynamic tube was varied from 2 to 50 meters/sec. The experimental body was a partitions. Heasurements were made of the velocity and the temperature of the flow, the degree of its turbulence under each set of

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المناسرونة الم del (1)/ dlu/ Erf (n)-2/ fill (m) W ACC NR AT5027200 UR/0000/65/000/000/0143/0147 44,55 44,55 Ayerov, V.Ye.; Martynenko, O.G.; Revzin, I.S.; Fedorov, AUTHOR: Heat and Mass Transfer Institute, AN BSSR, Minsk (Institut teploi massoobmena AN BSSR) TITLE: Effect of the turbulizing of a stream of air on heat transfer in a radiator SOURCE: AN BSSR. Institut teplo- i massoobmena. Teplo- i massoobmen tel s okruzhayushohey gazovoy sredoy (Heat and mass exchange of bodies with the surrounding gaseous medium). Minsk, Nauka i Tekhnika, 1965, 143-147 21,44.55 TOPIC TAGS: heat transfer, engine radiator, turbulent heat transfer ABSTRACT: Existing experimental data show that the use of a previously turbulized stream of air in various types of industrial heat exchangers can substantially increase their efficiency. Experiments were carried out on heat exchange in an oil radiator of the automobile type, with different degrees of turbulizing of the stream of air being blown through it. Hot oil from the lubricating system of a motor was circulated through a tube plate radiator. The article shows a sketch of the Card 1/2 Z

בסבלנסט ב AT5027200 ----ACC NR experimental setup. At constant loads and constant revolutions of the motor and the fan, measurements were made of the temperature of the walls of the radiator tubes as well as of the temperature of oil and air at the inlet and outlet of the radiator. In addition to the temperature measurements, determinations were made of the velocity field and the degree of turbulence of the stream of air before and after the radiator. Thermodynamic calculations based on the experimental data show that the efficiency of a radiator using a "pusher" fan increased by 25% on the average. The authors conclude that the installation of "pusher" fans on transport vehicles would permit a significant reduction in the size and weight of the radiator, which would make possible a substantial saving of nonferrous metal. Orig. art. has: 3 figures and 1 table OTH REF: 003 SUB CODE: ME/ SUEM DATE: 02Jul65/ ORIG REF: 004 LVK. Card

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SOURCE CODE: UR/0269/65/000/009/0013/0013

SOURCE: Ref. sh. Astronomiya, Abs. 9.51.130

12

AUTHOR: Fedorov, B. I.

3

TITLE: On variations in the delay of radio signals in the PRV receiver

REFERENCED SOURCE: Byul. st. optich. nablyudeniya iskusstv. sputnikov Zemli, no. 10,

TOPIC TACS: artificial earth satellite, artificial satellite observation, radio receiver, radio signal, chronograph/ PRV radio receiver

TRANSLATION: A method for determining the delay of radio signals at each passage of a satellite has been developed at the Artificial Earth Satellite Observation Station of Leningrad University. During 1962, the receiver-attachment-chronograph delay was, on the average, +0.0119 +0.0016 sec. The average delay of the attachment-chronograph circuit was +0.0091+0.0011 sec. The difference, which is the actual average delay of only the PRV receiver, was +0.0028 sec. The delay of the entire receiver-pulse attachment -chronograph system for each artificial earth satellite observation was begun to be accounted for at the station from 1962. P. U.

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SOURCE CODE: UR/0274/65/000/009/B052/B052

AUTHOR: Fedorov, B. I.

REF SOURCE: Byul. st. optich. nablyudeniya iskusstv. sputnikov Zemli, no. 40, 1964,

19-20

TITLE: Fluctuations in radio signal delay in an RF receiver

05

SOURCE: Ref. zh. Radiotekhnika i elektrosvyaz', Abs. 9B358

TOPIC TAGS: artificial satellite observation, radio signal, circuit delay time, RF

pulse

TRANSLATION: At an artificial earth satellite observation station attached to Leningrad University, a method of measuring the delay of radio signals on each passage of a satellite has been developed. A description of its application is given. It is shown that on the average in 1962, the delay of the receiver-adapter-chronograph circuit was 0.0119*11 sec. The average delay of the adapter-chronograph circuit, however, was 0.0091*11 sec. The difference, comprising the true average delay of the RF receiver alone, was approximately +0.0028 seconds. Since 1962, the delay of the entire system--receiver, pulse, adapter, and chronograph--has been considered at the station for each observation of an artificial earth satellite. P. U. SUBM DATE: none

UDC: 621.396.62:621.396.946

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SHCHERBAKOV, I.F.; GUSEV, M.I., redaktor; FEDOROV, B.M., redaktor; KARASIK, N.P., tekhnicheskiy redaktor.

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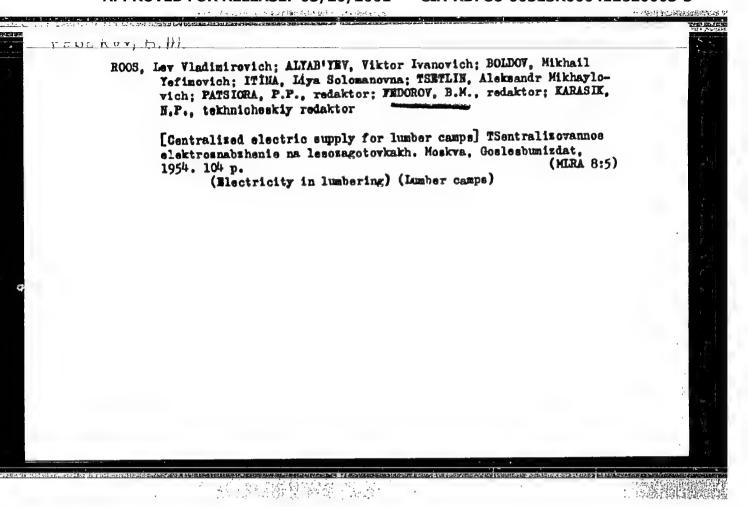
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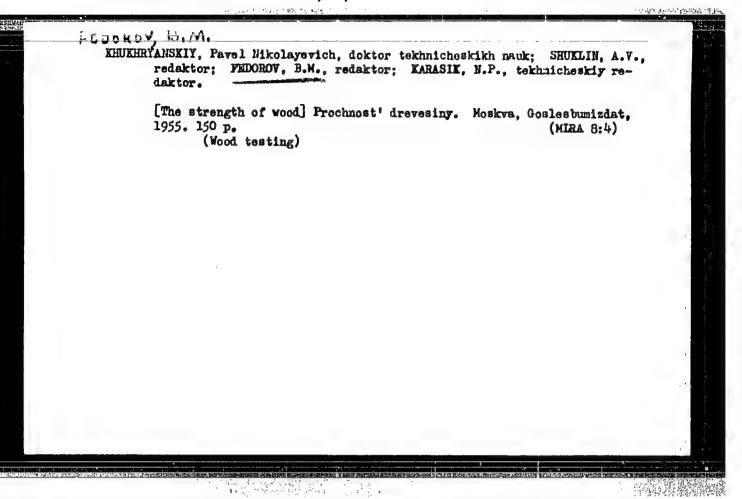
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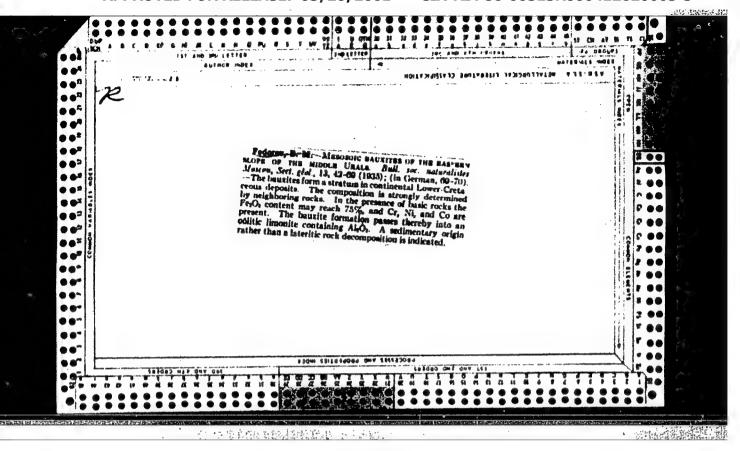
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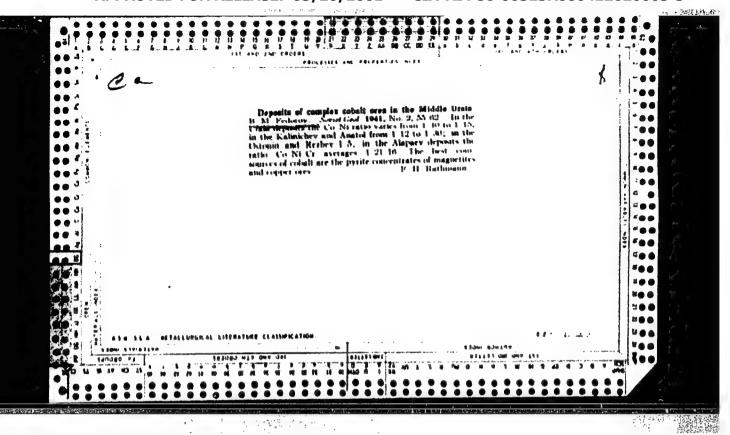
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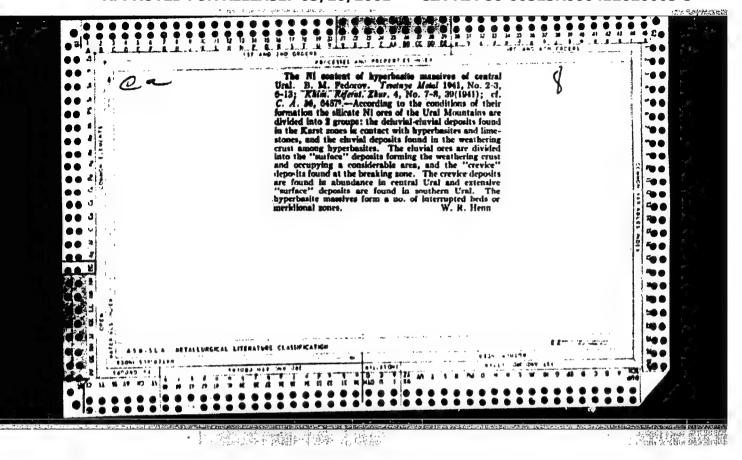
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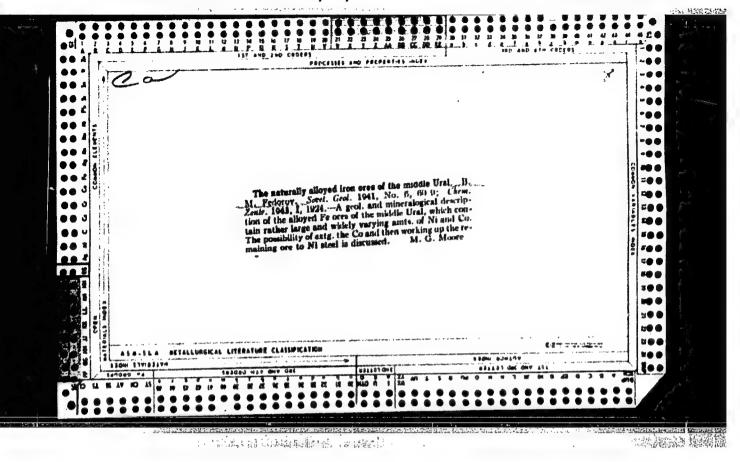
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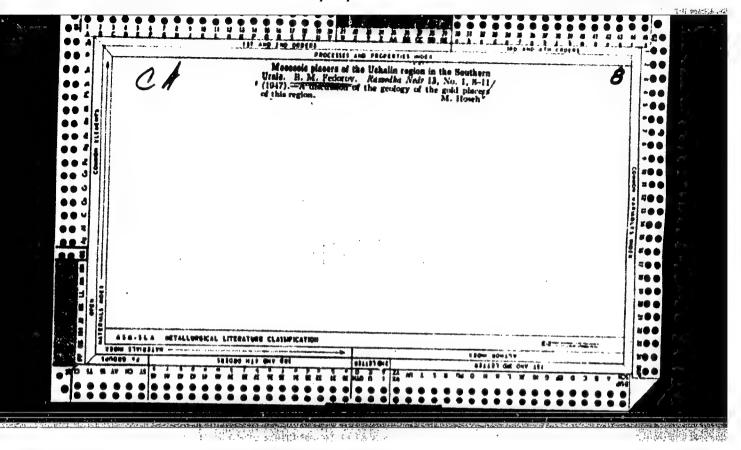
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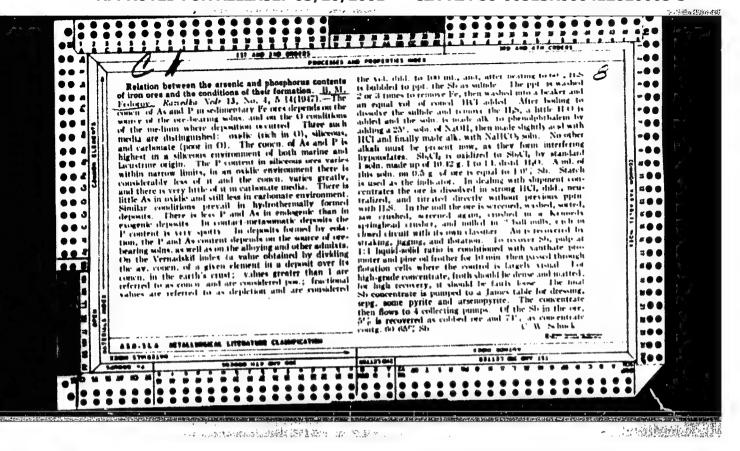




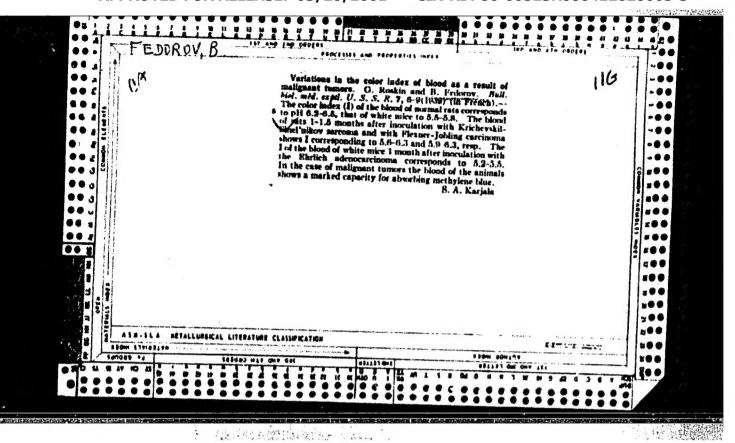


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